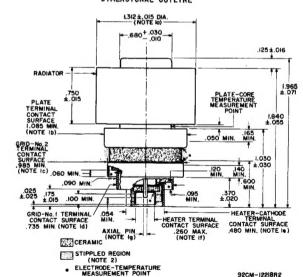
Beam Power Tube

CERMOLOX® RUGGEDIZED TYPE INTEGRAL RADIATOR FORCED-AIR COOLED 40 WATTS CW POWER OUTPUT AT 1215 Mc/s MATRIX-TYPE, OXIDE-COATED, UNIPOTENTIAL CATHODE For Use in Compact Aircraft, Mobile, and Stationary Equipment The 8596 is the same as the 7457 except for the following items: MECHANICAL Maximum Overall Length . . 2.036 in Maximum Diameter . . . 1.327 in Plate, Grid No. 2, Grid No. 1, Cathode, and Heater Temperature . . ٥c 250 may Plate-Core Temperature 250 max 00 CHARACTERISTICS RANGE VALUES Note Min Max Zero Bias Plate Current . 1.7 390 mΑ NOTE 7: With dc plate volts = 300, dc grid-No.2 volts = 150, dc grid No.1 volts = 0.

DIMENSIONAL OUTLINE



DIMENSIONS IN INCHES

For notes, see next page.



NOTE 1: The following diametrical space requirements accommodate the concentricity of the cylindrical surfaces of the radiator band, axial pin, and each electrode terminal:

a. Radiator Band - 1,376 inch

b. Plate Terminal - 1.119 inch

c. Grid-No.2 Terminal - 1.019 inch

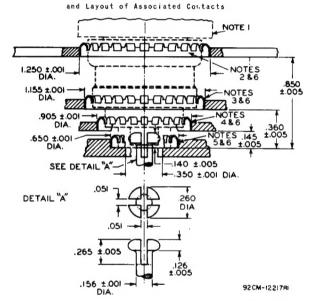
d. Grid-No.1 Terminal - 0.764 inch

e. Heater-Cathode Terminal -0.519 inch

f. Heater Terminal - 0.238 inch q. Axial Pin - 0.071 inch

NOTE 2: Keep all stippled regions clear. Do not allow contacts or circuit components to protrude into these annular volumes.

PREFERRED MOUNTING ARRANGEMENT



DIMENSIONS IN INCHES

NOTE I: If a clamp is used, it must be adjustable in a plane normal to the major tube axis to compensate for variations in concentricity between the radiator cylinder and the contact terminals.

NOTE 2: Contact ring No.97-252 or finger stock No.97-380. NOTE 3: Contact ring No.97-253 or finger stock No.97-380.

NOTE 4: Contact ring No. 97-253 or linger stock No. 97-380.

NOTE 5: Contact ring No. 97-255 or finger stock No. 97-380.

NOTE 6: The specified contact ring of preformed finger stock and finger stock No.97-380 provide adequate electrical contact, but the finger stock No.97-380 is less susceptible to breakage than the specified contact ring. Both types are made by instruments specialties Co., Little Falls, N. J.